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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/049,696	03/27/1998	PATRICIA A. BILLING-MEDEL	6067.US.O1	5914
23492	7590	12/17/2004	EXAMINER	
ROBERT DEBERARDINE ABBOTT LABORATORIES 100 ABBOTT PARK ROAD DEPT. 377/AP6A ABBOTT PARK, IL 60064-6008			MARTINELL, JAMES	
			ART UNIT	PAPER NUMBER
			1631	

DATE MAILED: 12/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/049,696	BILLING-MEDEL ET AL.
Examiner	Art Unit	
James Martinell	1631	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 August 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 33-38 and 40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 33-38 and 40 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____. |

Art Unit: 1631

The indicated allowability of claim 40 is withdrawn in view of the newly discovered reference(s) to Tang et al (U.S. 2001/0025098). Rejections based on the newly cited reference(s) follow.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 33-38 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tang et al (U.S. 2001/0025098). SEQ ID NOs: 18, 19, and 20 are contained within SEQ ID NO: 25 of Tang et al (U.S. 2001/0025098). See the alignments in Appendices A, B, and C of this Office action. None of SEQ ID NOs: 18, 19, or 20 has basis in parent application Serial No. 08/829,754, so the effective filing date of each of the instant claims is March 27, 1998. SEQ ID NO: 25 of Tang et al (U.S. 2001/0025098) has basis in Serial No. 09/039,307 (filed March 13, 1998) as SEQ ID NO: 24. In addition, Tang et al teaches the expression of the DNAs disclosed in Tang et al in heterologous hosts (*e.g.*, see paragraphs 0167-0182), thus meeting claims 35-37. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Martinell whose telephone number is (571) 272-0719. The fax phone number for Examiner Martinell's desktop workstation is (571) 273-0719. The examiner works a flexible schedule and can be reached by phone and voice mail. Alternatively, a request for a

Art Unit: 1631

return telephone call may be e-mailed to james.martinell@uspto.gov. Since e-mail communications may not be secure, it is suggested that information in such requests be limited to name, phone number, and the best time to return the call.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached on (571) 272-0722.

FAX NUMBER

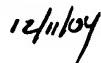
The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Any Official Communication to the USPTO should be faxed to this number.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.


James Martinell, Ph.D.
Primary Examiner
Art Unit 1631

12/11/04

Db	2291	CCTGCCAAATACCGACCTGAAAGCGGGAAATTCA CGGGCAGTCTTAAATCTGACT	2350	Db	10	GAATCACAGGGAGTAGCACGAAATGGGCCATTAACTGACT	69
Qy	2341	TGACAGCTTCCTGGATGACATGGACGGTCACAGATCATTCGATA	2400	Qy	61	CTTCACCTCTPAGAAGGGCCCTGAAATACTCATTCGCTGAAACAGATGGCT	120
Db	2351	TGACAGCTCCGGGGATGATGACATGGACGGTCACAGATCATTCGATA	2410	Db	70	CTTCACCTCTPAGAAGGGCCCTGAAATACTCATTCGCTGAAACAGATGGCT	129
Qy	2401	AGTACAGTATTCTGATCTCAGAGACAGTCAATGATCTCAGTGAATCTACT	2460	Qy	121	GAAGGCATTTCGTGCAATGACCCCATACTGCGAGAATGAAACATCATTCAA	180
Db	2411	AGTACAGTATTCTGATCTCAGAGACAGTCAATGATCTCAGTGAATCTACT	2470	Db	130	GAAGGCATTTCGTGCAATGACCCCATACTGCGAGAATGAAACATCATTCAA	189
Qy	2461	GCTCTCATCCCCAACGGAGGCCACTCTGAGGAGTCTTGTAAACCGAAACATT	2520	Qy	181	ATAAGGACATGGTACCCAGGATCTCTGATCTGACTTCAAGGAAAGGATT	240
Db	2471	GCTCTCATCCCCAACGGAGGCCACTCTGAGGAGTCTTGTAAACCGAAACATT	2530	Db	190	ATAAGGACATGGTACCCAGGATCTCTGACTTCAAGGAAAGGATT	249
Qy	2521	ACTTTGAAATGGCACAGATCTTCAATGCTATTAGGTGATCTG	2580	Qy	241	TATTCAAAATGGTCCATTTCATTCCTGAAACATGGAAAGAACAGCTGACTATGTC	300
Db	2531	ACTTTGAAATGGCACAGATCTTCAATGCTATTAGGTGATCTG	2590	Db	250	TATTCAAAATGGTCCATTTCATTCCTGAAACATGGAAAGAACAGCTGACTATGTC	309
Qy	2581	AAATCGAAATATCCACATTGACAGATCTGCTTATTCCCTCCACAGACTCGCCA	2640	Qy	301	AGACCAAACCTGAGCCTAACAAATGTTGATGTTCTGGTTGACTCTCTCCA	360
Db	2591	AAATCGAAATATCCACATTGACAGATCTGCTTATTCCCTCCACAGACTCGCCA	2650	Db	310	AGACCAAACCTGAGCCTAACAAATGTTGATGTTCTGGTTGACTCTCTCCA	369
Qy	2641	GAGACACTGTCCTGATGAAACCTCTGCTTCAATGCTTCAAGCAC	2700	Qy	361	GGTAATGATGAAACCTACACTGAGCAGATGGCCAACTGCTGGAGAAGGGTGAAGGATC	420
Db	2651	GAGACCTAGTCCTGATGAAACCTCTGCTTCCTGATGAAACCTCTGCTTC	2710	Db	370	GGTAATGATGAAACCTACACTGAGCAGATGGCCAACTCTGCTGAAAGGATC	429
Qy	2701	ATTCCTGGGATTCACTTAAATTAATGTTGAAAGTGGATAGGAACTGAGCTGCA	2760	Qy	421	ACCTCACTCCGTGATTCATTGAGGAAAGTGTGAAATGGACCAAGGTAG	480
Db	2711	ATTCCTGGGATTCACTTAAATTAATGTTGAAAGTGGATAGGAACTGAGCTGCA	2770	Db	430	ACCTCACTCCGTGATTCATTGAGGAAAGTGTGAAATGGACCAAGGTAG	489
Qy	2761	ATAGCCTAGGGCTGAATTGGTCAAGATAAATAATCATTCTCCTT	2812	Qy	481	GGATTCTCCATGAGTGGCTCATPAGTGGGATTGAGCTGAGTGGGATTGAG	540
Db	2771	ATAGCCTAGGGCTGAATTGGTCAAGATAAATAATCATTCTCCTT	2822	Db	490	GGATTCTCCATGAGTGGCTCATPAGTGGGATTGAGCTGAGTGGGATTGAG	549
Qy	541	GAGAACTCTACTTATGGAACAAATCAAGGCTAAATGTTGAGCTTAACTGTTGAGTACT	600	Qy	541	GAGAACTCTACTTATGGAACAAATCAAGGCTAAATGTTGAGCTTAACTGTTGAGTACT	600
Db	550	GAGAACTCTACTTATGGAACAAATGTTGAGCTTAACTGTTGAGTACT	609	Db	550	GAGAACTCTACTTATGGAACAAATGTTGAGCTTAACTGTTGAGTACT	609
Qy	601	GGTACAACTGTTGAAAGAAGTGTGAGGAGCCTGTTAACCTGAGCACATT	660	Qy	601	GGTACAACTGTTGAAAGAAGTGTGAGGAGCCTGTTAACCTGAGCACATT	660
Db	610	GGTACAACTGTTGAAAGAAGTGTGAGGAGCCTGTTAACCTGAGCACATT	669	Db	610	GGTACAACTGTTGAAAGAAGTGTGAGGAGCCTGTTAACCTGAGCACATT	669
Qy	661	AATAAGTAACAGGACTCTATGAAAGGATGTTGTTCTCCAACTCCGCAGACG	720	Qy	661	AATAAGTAACAGGACTCTATGAAAGGATGTTGTTCTCCAACTCCGCAGACG	720
Db	670	AATAAGTAACAGGACTCTATGAAAGGATGTTGTTCTCCAACTCCGCAGACG	729	Db	670	AATAAGTAACAGGACTCTATGAAAGGATGTTGTTCTCCAACTCCGCAGACG	729
Qy	721	GAGAGGGCTCTATAATGGTGCACACATGTTGATCTATAGTGAACTGAGCAA	780	Qy	721	GAGAGGGCTCTATAATGGTGCACACATGTTGATCTATAGTGAACTGAGCAA	780
Db	730	GAGAGGGCTCTATAATGGTGCACACATGTTGAGCTTCTGTACAGAGAA	789	Db	730	GAGAGGGCTCTATAATGGTGCACACATGTTGAGCTTCTGTACAGAGAA	789
Qy	781	CAAAACACAAAGAAGCTCAACAAAGCAAAATCAAATGCAATCTCGAGACAA	840	Qy	781	CAAAACACAAAGAAGCTCAACAAAGCAAAATCAAATGCAATCTCGAGACAA	840
Db	790	CAAAACACAAAGAAGCTCAACAAAGCAAAATCAAATGCAATCTCGAGACAA	849	Db	790	CAAAACACAAAGAAGCTCAACAAAGCAAAATCAAATGCAATCTCGAGACAA	849
Qy	841	TGGGAATGTCGTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	900	Qy	841	AAATCTGAACTGTCGTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	900
Db	850	TGGGAATGTCGTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	909	Db	850	TGGGAATGTCGTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	909
Qy	901	CCAAATCCACCTTCTATTGTCGAGCTGCAATTGCAAGGCCCACCTT	960	Qy	901	CCAAATCCACCTTCTATTGTCGAGCTGCAATTGCAAGGCCCACCTT	960
Db	910	CCAAATCCACCTTCTATTGTCGAGCTGCAATTGCAAGGCCCACCTT	969	Db	910	CCAAATCCACCTTCTATTGTCGAGCTGCAATTGCAAGGCCCACCTT	969
Qy	961	AAATCTGAACTGTCGTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	1020	Qy	961	AAATCTGAACTGTCGTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	1020
Db	970	AAATCTGAACTGTCGTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	1029	Db	970	AAATCTGAACTGTCGTTCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	1029
Qy	1021	TCCCTGCTGCAAGACACTGCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	1080	Qy	1021	TCCCTGCTGCAAGACACTGCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	1080
Db	1030	TCCCTGCTGCAAGACACTGCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	1089	Db	1030	TCCCTGCTGCAAGACACTGCTGGCTTCTGGCTTCTGGCTTCTGGCTTCTGG	1089
Qy	1081	GCCCATGTCACAAAGTGAACCTACAGATAAACACTGGAGTCAAGGACACACTGCC	1140	Qy	1081	GCCCATGTCACAAAGTGAACCTACAGATAAACACTGGAGTCAAGGACACACTGCC	1140
Db	1090	GCCCATGTCACAAAGTGAACCTACAGATAAACACTGGAGTCAAGGACACACTGCC	1149	Db	1090	GCCCATGTCACAAAGTGAACCTACAGATAAACACTGGAGTCAAGGACACACTGCC	1149

RESULT 2

US-09-823-356-25

Sequence 25, Application US/09823356

Patent No. US0010025098A1

GENERAL INFORMATION:

APPLICANT: Tang, Y.

APPLICANT: Bandman, Olga

Lal, Preeti

APPLICANT: Hillman, Jennifer L.

Yue, Henry

APPLICANT: Corley, Neil C.

Corley, Neil C.

APPLICANT: Guequier, Karl J.

Guequier, Karl J.

APPLICANT: Kaser, Matthew R.

Kaser, Matthew R.

APPLICANT: Baughn, Mariah R.

Baughn, Mariah R.

APPLICANT: Shah, Purvi

Shah, Purvi

TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS

I.

FILE REFERENCE: PP-0889-1 CONCURRENT APPLICATION NUMBER: US/09/823,356

I.

CURRENT FILING DATE: 2001-03-01 PRIORITY APPLICATION NUMBER: US/09/823,356

I.

PRIOR FILING DATE: 1998-09-09, 307 NUMBER OF SEQ ID NOS: 34 SOFTWARE: PERL Program SEQ ID NO: 25 LENGTH: 3111 TYPE: DNA ORGANISM: Homo sapiens FEATURE: NAME/KEY: misc_feature OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775

Qy

1 GAATCACAGGGAGATGACAGCAATGGGCCATTAAAGTGAAGGTCTGTTGATCTGATT

Qy

Qy	1141	AAAAGATTACCTGAGCAGGTTCAAGGGACGTCCATCTGCACCGGGTTCGATCGGCA	1200	2221 TCGGGAGGCTCATTTGGGCTTCTGAGTCCCATAACCTGATCTCTTCCC	2280
Db	1150	AAAAGATTACCTGAGCAGGTTCAAGGGACGTCCATCTGCACCGGGTTCGATCGGCA	1209	2230 TCGGGAGGCTCATTTGGGCTTCTGAGTCCCATAACCTGATCTCTTCCC	2289
Qy	1201	TTTACTGTGATTAGGAAATACTCAACTGATGATGAAATTGCTGCTAACGGAT	1260	2281 CCTGGCCAATACCGAACCTGAGGGAAATTCACGGGGAGTCATTATCTGACT	2340
Db	1210	TTTACTGTGATTAGGAAATACTCAACTGATGATGAAATTGCTGCTAACGGAT	1269	2290 CCTGGCCAATACCGAACCTGAGGGAAATTCACGGGGAGTCATTATCTGACT	2349
Qy	1261	GGGGAGAACACACTATAAGGGTCTTAAAGGGTCAAACAAAGTGGCATATC	1320	2341 TGGACAGCTCCPCTGGGATGATTAGGACATGGAAAGCTCACAGTATATCATTGATA	2400
Db	1270	GGGGAGAACACACTATAAGGGTCTTAAAGGGTCAAACAAAGTGGCATATC	1329	2350 TGGACAGCTCCPCTGGGATGATTAGGACATGGAAAGCTCACAGTATATCATTGATA	2409
Qy	1321	CACACAGTCCTTGGGCCCTCTGAGCTGAGCTCAAATGACA	1380	2401 AGTACAACTATTCTGACTCTGAGCTAATGATACTCTCACTGATACTACT	2460
Db	1330	CACACAGTCCTTGGGCCCTCTGAGCTGAGCTCAAATGACA	1389	2410 AGTACAACTATTCTGACTCTGAGCTAATGATACTCTCACTGATACTACT	2469
Qy	1381	GGAGGTTAACAGACATATGCTTCAAGTCACTGAAACTGGCTCATGTGATGCTT	1440	2461 GCCTCTCATCCAAAGGAGCCAACTCTAGGAAGTCTTTGGTTAACCGAAAACATT	2520
Db	1390	GGAGGTTAACAGACATATGCTTCAAGTCACTGAAACTGGCTCATGTGATGCTT	1449	2470 GCCTCTCATCCAAAGGAGCCAACTCTAGGAAGTCTTTGGTTAACCGAAAACATT	2529
Qy	1441	GGGGCCCTTATCATGAAATGGGACTTCACTGAACTGGCTCATGTGATGCTT	1500	2521 ACRTTGAAAATGGCACAGATCTTCATGGTATTAGGCTAGGCTAGGTGATAGGTGATCTG	2580
Db	1450	GGGGCCCTTATCATGAAATGGGACTTCACTGAACTGGCTCATGTGATGCTT	1509	2530 ACRTTGAAAATGGCACAGATCTTCATGGTATTAGGCTAGGCTAGGTGATCTG	2589
Qy	1501	GGATTAAACCCTCCAGAACAGCCAGCTGATGATGAACTGGCACAGCCTG	1560	2581 AAATCAGAAATAATCCAACATTTGGCACAGTATCTCTCAGAGCTCGCCA	2640
Db	1510	GGATTAAACCCTCCAGAACAGCCAGCTGATGATGAACTGGCACAGCCTG	1569	2590 AAATCAGAAATAATCCAACATTTGGCACAGTATCTCTCAGAGCTCGCCA	2649
Qy	1561	GGAAAGGACACTTTGTTCTATCACTGGCAACGGAGCTCCAAATCCCTCTGC	1620	2641 GAGACACCTAGTCTGATGAAACCTCTCTCTGCTTCTGCTTAATATCATAACAGCACC	2700
Db	1570	GGAAAGGACACTTTGTTCTATCACTGGCAACGGAGCTCCAAATCCCTCTGC	1629	2650 GAGACACCTAGTCTGCTTCTGCTTAATATCATAACAGCACC	2709
Qy	1621	GATCCCCAGAGGAAAGGCAAGTGGCTTAGTGGACAALAAACACCGCTAC	1680	2701 ATTCCTGGCATTACATTTGGCTTAATATCATAACAGTGGAAACTGAGCTGTA	2760
Db	1630	GATCCCCAGTGGGAGGCAAGTGGCTTAGTGGACAALAAACACCGCTAC	1689	2710 ATTCCTGGCATTACATTTGGCTTAATATCATAACAGTGGAAACTGAGCTGTA	2769
Qy	1681	CTCCAAATCCAGGCAATTGTAAGGTTGGCACTTGGGAAATACTGCTGCAAGCAAGCTCA	1740	2761 ATAGGCTAGGGCTGATAATTGGAGAGTGGATAGGAAACTGAGCTGTA	2812
Db	1690	CTCCAAATCCAGGCAATTGTAAGGTTGGCACTTGGGAAATACTGCTGCAAGCTCA	1749	2770 ATAGGCTAGGGCTGATAATTGGAGAGTGGATAGGAAACTGAGCTGTA	2821
Qy	1741	CAAAACCTGACCCCTGACTGTCACTGTCCTGCCATGCTTCCAAATTACA	1800	RESULT 3 US-09-981-353-191	
Db	1750	CAAAACCTGACCCCTGACTGTCACTGTCCTGCCATGCTTCCAAATTACA	1809	; Sequence 191, Application US/09981353 ; Patent No. US20020160382A1	
Qy	1801	GTCGACTTCAAACAGAAACAGGACACCAAACTCCAGCCATGCTTCTGCA	1860	; GENERAL INFORMATION: ; APPLICANT: Lasek, Amy W. ; ATTORNEY: Jones, David A.	
Db	1810	GTCGACTTCAAACAGAAACAGGACACCAAACTCCAGCCATGCTTCTGCA	1869	; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER ; FILE REFERENCE: PA-00318 US ; CURRENT APPLICATION NUMBER: US/09/981,353 ; NUMBER OF SEQ ID NOS: 194	
Qy	1861	AATATTGCGCAAGGAGCTCCCAAACTCTAGGGCAACTGTGACAGCCTGATTGATCA	1920	; SOFTWARE: PERL Program ; SEQ ID NO 191 ; LENGTH: 3111 ; TYPE: DNA ; ORGANISM: Homo sapiens	
Db	1870	AATATTGCGCAAGGAGCTCCCAAACTCTAGGGCAACTGTGACAGCCTGATTGATCA	1929	; FEATURE: ; NAME/KEY: misc_feature ; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737777SCB1	
Qy	1921	GTCGAATGAAAAAACAGTTPACCTGNGGATAATGGAGCTGCTGATGCTACT	1980	Qy 1 GAATACAGGGAGATGTCAGGCAATGGGGCCATTAAAGAGTTCTGTTCATCTGATT 60	
Db	1930	GTCGAATGAAAAAACAGTTPACCTGNGGATAATGGAGCTGCTGATGCTACT	1989	Db 10 GAATACAGGGAGATGTCAGGCAATGGGGCCATTAAAGAGTTCTGTTCATCTGATT 69	
Qy	1981	AAGGATGAGGGTGTACTCAAGTATTGAGCTGAAATGAGTACAGT	2040	Qy 61 CTTCACTTCTGAGAAGGGCCCTGAGTAATTCACTGAGTAAATGGCTAT 120	
Db	1990	AAGGATGAGGGTGTACTCAAGTATTGAGCTGAAATGAGTACAGT	2049		
Qy	2041	GTTAAAGTCGGGCTCTGGAGGTTAACGGAGTTAACGGAGTGTGCTGATGCTACT	2100		
Db	2050	GTTAAAGTCGGGCTCTGGAGGTTAACGGAGTGTGCTGATGCTACT	2109		
Qy	2101	AGTCGAGGCTGTGATCATACTCTGGTGGATTGAGATGATGAAATCATGGAACTC	2160		
Db	2110	AGTCGAGGCTGTGATCATACTCTGGTGGATTGAGATGATGAAATCATGGAACTC	2169		
Qy	2161	AGACCTGAATTAAAGGATGATGTTCAACAGGAGCTGTTGAGCAACATC	2220		
Db	2170	AGACCTGAATTAAAGGATGATGTTCAACAGGAGCTGTTGAGCAACATC	2229		

Qy	1221	ATGCCCTCATGATGCTTGGCCCTTCATCGGAATGGAGCTCTAGCGT	180	
Db	1284	ATGCCCTCATGATGCTTGGCCCTTCATCGGAATGGAGCTCTAGCGCT	1343	
Qy	181	CCATCCAGCTTGAGTAAGGGATTAACCTCCAGAACGCCAGCAG	240	
Db	1344	CCATCCAGCTTGAGTAAGGGATTAACCTCCAGAACGCCAGCAG	1403	
Qy	241	TGATCGTGCAGCACGCCCTGGAAAGGACAATTTGTTCTATCACCTGGACACGCGAC	300	
Db	1404	TGATCGTGCAGCACGCCCTGGAAAGGACAATTTGTTCTATCACCTGGACACGCGAC	1463	
Qy	301	CTCCCCAATTCCTCTCGATCCAGTGTGACAGAAGGAAAGGGATCTTGAACTGGCA	360	
Db	1464	CTCCCCAATTCCTCTCGATCCAGTGTGACAGAAGGAAAGGGATCTTGAACTGGCA	1523	
Qy	361	AAAACACCAAATGGCTTACCTCCAATCCAGCATTCTAAGGTGGCACTGGAAAT	420	
Db	1524	AAAACACCAAATGGCTTACCTCCAATCCAGCATTCTAAGGTGGCACTGGAAAT	1583	
Qy	421	ACAGTCAGCAAGAGCTCAAAACCTTGACCTGTCAGTGTGCTCCAAATG	480	
Db	1584	ACAGTCAGCAAGAGCTCAAAACCTTGACCTGTCAGTGTGCTCCAAATG	1643	
Qy	481	CTAACCTCTCCATTACGTACTTCCAAACGACAGGACACCAGAAATTCCCNA	540	
Db	1644	CTAACCTCTCCATTACGTACTTCCAAACGACAGGACACCAGAAATTCCCNA	1703	
Qy	541	GCCCTCTGGTAGTGTGTTATGCAATAATTGCGCAAGGCTCCGAAATTCTAGGCCAGTG	600	
Db	1704	GCCCTCTGGAGTGTGTTATGCAATAATTGCGCAAGGCTCCGAAATTCTAGGCCAGTG	1763	
Qy	601	TCACAGCCCTGATTGATGCAATGATGGATGAAAAACAGTGTACCTGGAAACTATG	660	
Db	1764	TCACAGCCCTGATTGATGCAATGATGGATGAAAAACAGTGTACCTGGAACTATG	1823	
Qy	661	GACGAGGTGCTGACTAAGATGCTACTAAGGTATTGCAACTTATG	720	RESULT 2
Db	1824	GACGAGGTGCTGACTAAGATGCTACTAAGGTATTGCAACTTATG	1883	US-09-823-356-25
Qy	721	ACAGAAATTGAGATAAGCTGTAAGGTGAAAGTGGGTTAACGCCAGAC	780	; Sequence 25, Application US/09823356
Db	1884	ACAGAAATTGAGATAAGCTGTAAGGTGAAAGTGGGTTAACGCCAGAC	1943	; Patent No. US20010025098A1
Qy	781	GGAGAGTGTACCCAGAGTGAGTGTGACATACTGGCTGGATGAGATGATG	840	; GENERAL INFORMATION:
Db	1944	GGAGAGTGTACCCAGAGTGAGTGTGACATACTGGCTGGATGAGATGATG	2003	; APPLICANT: Bandman, Olga
Qy	841	AATACATGGAATCTCCAGAACCTGAAATTAATAGGTGTGAACTACAGCAG	900	; APPLICANT: Lal, Preeti
Db	2004	AATACATGGAATCTCCAGAACCTGAAATTAATAGGTGTGAACTACAGCAG	2063	; APPLICANT: Hillman, Jennifer L.
Qy	901	TGTTGTTCAAGAGACATCTCGGAGGCTCATTTGCTGCTCAATGCTC	960	; APPLICANT: Yue, Henry
Db	2064	TGTTGTTCAAGAGACATCTCGGAGGCTCATTTGCTGCTCAATGCTC	2123	; APPLICANT: Corley, Neil C.
Qy	961	CCATACCTGATCTCTCCACCTGGCAALATCACGGACCTGAAGGGAAATTACGGGG	1020	; APPLICANT: Guequier, Karl J.
Db	2124	CCATACCTGATCTCTCCACCTGGCAALATCACGGACCTGAAGGGAAATTACGGGG	2183	; APPLICANT: Kasev, Matthew R.
Qy	1021	GCAGTCATTAATCTGACTTGGGATGTTAACCTGGAAAGCTTC	1080	; APPLICANT: Baugh, Mariah R.
Db	2184	GCAGTCATTAATCTGACTTGGGATGTTAACCTGGAAAGCTTC	2243	; APPLICANT: Shah, Purvi
Qy	1081	ACAGTATATCATGCAATTGACTAAGTGTGATCTGAGACAGCTCATGAT	1140	; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS
Db	2244	ACAGTATATCATGCAATTGACTAAGTGTGATCTGAGACAGCTCATGAT	2303	; CURRENT APPLICATION NUMBER: US/09/823,356
Qy	1141	CCTCTCAAGGAATGAACTACTGCTCATCCAAAGGAAGGAAACTCTGAGAAGTCCTT	1200	; CURRENT FILING DATE: 2001-03-30
Db	2304	CCTCTCAAGGAATGAACTACTGCTCATCCAAAGGAAGGAAACTCTGAGAAGTCCTT	2363	; PRIOR APPLICATION NUMBER: 09/039,307
Qy			; PRIOR FILING DATE: 1998 March 13	
Db			; NUMBER OF SEQ ID NOS: 34	
			; SOFTWARE: PERL Program	
			; SEQ ID NO: 25	
			; LENGTH: 3111	
			; TYPE: DNA	
			; ORGANISM: Homo sapiens	
			; FEATURE:	
			; NAME/KEY: misc feature	
			; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775	
			US-09-823-356-25	
Qy			1 AACAAAATCCAGAAAAACATACTTTGAAATGGCACAGCTCATCCACACGATGCTTCAAGAAGCTAGCTGGGCCCCCTCTGAGCTCAAGAAGCTAG 1260	

Db	1310 AACAAAGTGGGCCATCATCCACAGTCGCTTGGGCCCTCGAGTCAGAACCTG	1369	Db	2390 ACAGGTATCATCGAATAAGTACAGTATTCTGATCTGAGACAAGTCAATGAT	2449	
Qy	61 AGGAGCTGICAAAATGACAGGAGTTACAGACATACTGGTCAGATCAGACTG	120	Qy	1141 CTCTTCAGTGAATACTACTGCCTCATCCCAGGGGCCAACTCTGAGGAATCTTT	1200	
Db	1370 AGGAGCTGICAAAATGACAGGAGTTACAGACATACTGGTCAGATCAGACTA	1429	Db	2450 CTCTTCAGTGAATACTACTGCCTCATCCCAGGGGCCAACTCTGAGGAATCTTT	2509	
Qy	1221 ATGGCTCTCATTTGCTGGGCCCTTCATCGAAATTGGCTCTAGCGCT	180	Qy	1201 TGTTTAACCAGAAAACATTACTTTGAAATGGCACAGATCTTGATCTAGG	1260	
Db	1430 ATGGCTCTCATTTGCTGGGCCCTTCATCGAAATTGGCTCTAGCGCT	1489	Db	2510 TGTTTAACCAGAAAACATTACTTTGAAATGGCACAGATCTTGATCTAGG	2569	
Qy	1811 CCATCCAGCTTGTAGAGTAAGGATAACCTCCGAACAGCCAGTGGATGCA	240	Qy	1261 CTGTTGATAAAGGTGATCTGAAATTCGAACATGGACAGATCTTGTTTA	1320	
Db	1490 CCATCCAGCTTGTAGAGTAACCTCCGAACAGCCAGTGGATGCA	1549	Db	2570 CTGTTGATAAAGGTGATCTGAAATTCGAACATGGACAGATCTTGTTTA	2629	
Qy	2411 TGATCTGAGACAGTCGTGGAAAGGACACTTGTCTTATACCGTACAGCAGC	300	Qy	1321 TTCTCCACAGACTCCGCAGAGACACTAGTCTGATGAAACGTCGCTGCTTC	1380	
Db	1550 TGATCTGAGACAGTCGTGGAAAGGACACTTGTCTTATACCGTACAGCAGC	1609	Db	2630 TTCTCCACAGACTCCGCAGAGACACTAGTCGTCGTTGATGAAACGTCGCTTC	2689	
Qy	3011 CTCCCCAAATCCTTCTCGGATCCAGTGGACAGAAGGTTGGCTTGTAGTGG	360	Qy	1381 ATATTCAATCATACAGCACCCATTCCGGCATTCACATTAAATATATGTGGA	1440	
Db	1610 CTCCCCAAATCCTTCTCGGATCCAGTGGACAGAAGGTTGGCTTGTAGTGG	1669	Db	2690 ATATTCAATCATACAGCACCCATTCCGGCATTCACATTAAATATATGTGGA	2749	
Qy	3611 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCTAAGTTGGCAAT	420	Qy	1441 TACGAGACTGAGCTGGCTTAAGCTAGCTGGGTGAATTGTGATTAATAAATAA	1500	
Db	1670 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCTAAGTTGGCAAT	1729	Db	2750 TAGGAGACTGAGCTGGCTCAATAGCTTAGGGCTGAATTGTGATTAATAAATAA	2809	
Qy	4211 ACAGCTGAAAGCAGTCACAAACCTGACCTTCACTCCGGCTCCAAATG	480	Qy	1501 TCATTCACTCCCTTTTGATTAATAAATTCATAAAATGTTAGACTCTCTGTAGG	1560	
Db	1730 ACAGCTGAAAGCAGTCACAAACCTTCACTCCGGCTCCAAATG	1789	Db	2810 TCATTCACTCCCTTTTGATTAATAAATTCATAAAATGTTAGACTCTCTGTAGG	2869	
Qy	4811 CTACCCCTGCTCCAAATTACAGTGAATTACAGTGAATTCTAACCTTGACTG	540	Qy	1561 GGGCGATAACTAACTAACTATAGTACATTATACTAAATGTTCTGTAGGGGCAT	1620	
Db	1790 CTACCCCTGCTCCAAATTACAGTGAATTCTAACCTTGACTG	1849	Db	2870 GGGCGATAACTAACTATAGTACATTATACTAAATGTTCTGTAGGGGCAT	2929	
Qy	5411 GCCCTCTGCTGTTGAAATTGGCTCCAAATTCTAGGGCCAGT	600	Qy	1621 ATACTAAATGTTATTAGACTCTCTGTAGGGGGATAAAATAATGCTAAACACTG	1680	
Db	1850 GCCCTCTGCTGTTGAAATTGGCTCCAAATTCTAGGGCCAGT	1909	Db	2930 ATACTAAATGTTATTAGACTCTCTGTAGGGGGATAAAATAATGCTAAACACTG	2989	
Qy	6011 TCAAGCCCTGATTGAAATTAGTGAATCACTGATGAAACTCTGGATAATG	660	Qy	1681 GTA 1683		
Db	1910 TCAAGCCCTGATTGAAATTAGTGAATCACTGATGAAACTCTGGATAATG	1969	Db	2990 GTA 2992		
Qy	6611 GAGCAGGCTCTGATGCTACTAACGGTACGGCTCTACTCAAGTTTCAAGCTATG	720	RESULT 3			
Db	1970 GAGCAGGCTCTGATGCTACTAACGGTACGGCTCTACTCAAGTTTCAAGCTATG	2029	US-09-981-353-191			
Qy	721 ACAGCAATGGTAGACAGTAAAGTGGGACTCTGGAGGTTAACGGCCAGAC	780	; Sequence 191, Application US/099811353			
Db	2030 ACAGCAATGGTAGACAGTAAAGTGGGCTCTGGAGGTTAACGGCCAGAC	2089	; Patent No. US2002160322A1			
Qy	781 GGAGAGTAAATCCAGAGCTTCAACAGGATGTTCAACAAAGCAAG	840	; GENERAL INFORMATION:			
Db	2090 GGAGAGTAAATCCAGAGCTTCAACAGGATGTTCAACAAAGCAAG	2149	; APPLICANT: Lasek, Amy W.			
Qy	841 AAATACATGGAACTCCAAAGACCTGAAATTAAAGGATGTTCAACAAAGCAAG	900	; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER			
Db	2150 AAATACATGGAACTCCAAAGACCTGAAATTAAAGGATGTTCAACAAAGCAAG	2209	; FILE REFERENCE: PA-0038-US			
Qy	901 TGTTGTTGAGCAACATCCTCGGGGCTCTGGAGGTTAACGGCCAGTC	960	; CURRENT APPLICATION NUMBER: US/09/981,353			
Db	2210 TGTTGTTGAGCAACATCCTCGGGGCTCTGGAGGTTAACGGCCAGTC	2269	; CURRENT FILING DATE: 2001-10-11			
Qy	961 CCATACCTGATCTCCACCTGGCCAATTACCGAACCTGAAGGGCAAAATCAGGG	1020	; NUMBER OF SEQ ID NOS: 194			
Db	2270 CCATACCTGATCTCCACCTGGCCAATTACCGAACCTGAAGGG	2329	; SOFTWARE: PERL Program			
Qy	1021 GGAGCTCTCATTAATCTGACTTCACTGCTGCTCTGATGTTGAACTG	1080	; SEQ ID NO. 191			
Db	2330 GGAGCTCTCATTAATCTGACTTCACTGCTGCTCTGATGTTGAACTG	2389	; LENGTH: 3111			
Qy	1081 ACAAGTATCATCGAATAAGTACAAGTATTCTGATCTGAGACAAGTCAATGAT	1140	; TYPE: DNA			
Db	1310 AACAAAGTGGGCCATCATCCACAGTCGCTTGGGCCCTCGAGTCAGAACCTG	1369	; ORGANISM: Homo sapiens			
Qy	611 AGGAGCTGICAAAATGACAGGAGTTACAGACATACTGGTCAGATCAGACTG	120	; FEATURE:			
Db	13701 AGGAGCTGICAAAATGACAGGAGTTACAGACATACTGGTCAGATCAGACTA	1429	; NAME/KEY: misc_feature			
Qy	12211 ATGGCTCTCATTTGCTGGGCCCTTCATCGAAATTGGCTCTAGCGCT	180	; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1			
Db	14301 ATGGCTCTCATTTGCTGGGCCCTTCATCGAAATTGGCTCTAGCGCT	1489	; US-09-981-353-191			
Qy	18111 CCATCCAGCTTGTAGAGTAAGGATAACCTCCGAACAGCCAGTGGATGCA	240	; Query Match Score: 100.0%; DB: 9; Length: 3111;			
Db	14901 CCATCCAGCTTGTAGAGTAACCTCCGAACAGCCAGTGGATGCA	1549	; Best Local Similarity: 100.0%; Pred. No.: 0;			
Qy	24111 TGATCTGAGACAGTCGTGGAAAGGACACTTGTCTTATACCGTACAGCAGC	300	; Matches: 1683; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;			
Db	15501 TGATCTGAGACAGTCGTGGAAAGGACACTTGTCTTATACCGTACAGCAGC	1609	; Software: PERL Program			
Qy	30111 CTCCCCAAATCCTTCTCGGATCCAGTGGACAGAAGGTTGGCTTGTAGTGG	360	; SEQ ID NO. 191			
Db	16101 CTCCCCAAATCCTTCTCGGATCCAGTGGACAGAAGGTTGGCTTGTAGTGG	1669	; TYPE: DNA			
Qy	36111 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCTAAGTTGGCAAT	420	; ORGANISM: Homo sapiens			
Db	16701 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCTAAGTTGGCAAT	1729	; FEATURE:			
Qy	42111 ACAGCTGAAAGCAGTCACAAACCTGACCTTCACTCCGGCTCCAAATG	480	; NAME/KEY:			
Db	17301 ACAGCTGAAAGCAGTCACAAACCTTCACTCCGGCTCCAAATG	1789	; OTHER INFORMATION:			
Qy	48111 CTACCCCTGCTCCAAATTACAGTGAATTACAGTGAATTCTAACCTTGACTG	540	; APPENDIX B 3			
Db	17901 CTACCCCTGCTCCAAATTACAGTGAATTCTAACCTTGACTG	1849	; APPENDIX C			
Qy	54111 GCCCTCTGCTGTTGAAATTGGCTCCAAATTCTAGGGCCAGT	600	; APPENDIX D			
Db	18501 GCCCTCTGCTGTTGAAATTGGCTCCAAATTCTAGGGCCAGT	1909	; APPENDIX E			
Qy	60111 TCAAGCCCTGATTGAAATTAGTGAATCACTGATGAAACTCTGGATAATG	660	; APPENDIX F			
Db	19101 TCAAGCCCTGATTGAAATTAGTGAATCACTGATGAAACTCTGGATAATG	1969	; APPENDIX G			
Qy	66111 GAGCAGGCTCTGATGCTACTAACGGTACGGCTCTACTCAAGTTTCAAGCTATG	720	; APPENDIX H			
Db	19701 GAGCAGGCTCTGATGCTACTAACGGTACGGCTCTACTCAAGTTTCAAGCTATG	2029	; APPENDIX I			
Qy	72111 ACAGCAATGGTAGACAGTAAAGTGGGACTCTGGAGGTTAACGGCCAGTC	780	; APPENDIX J			
Db	20301 ACAGCAATGGTAGACAGTAAAGTGGGCTCTGGAGGTTAACGGCCAGTC	2089	; APPENDIX K			
Qy	78111 GGAGAGTAAATCCAGAGCTTCAACAGGATGTTCAACAAAGCAAG	840	; APPENDIX L			
Db	20901 GGAGAGTAAATCCAGAGCTTCAACAGGATGTTCAACAAAGCAAG	2149	; APPENDIX M			
Qy	84111 AAATACATGGAACTCCAAAGACCTGAAATTAAAGGATGTTCAACAAAGCAAG	900	; APPENDIX N			
Db	21501 AAATACATGGAACTCCAAAGACCTGAAATTAAAGGATGTTCAACAAAGCAAG	2209	; APPENDIX O			
Qy	90111 TGTTGTTGAGCAACATCCTCGGGGCTCTGGAGGTTAACGGCCAGTC	960	; APPENDIX P			
Db	22101 TGTTGTTGAGCAACATCCTCGGGGCTCTGGAGGTTAACGGCCAGTC	2269	; APPENDIX Q			
Qy	96111 CCATACCTGATCTCCACCTGGCCAATTACCGAACCTGAAGGGCAAAATCAGGG	1020	; APPENDIX R			
Db	22701 CCATACCTGATCTCCACCTGGCCAATTACCGAACCTGAAGGG	2329	; APPENDIX S			
Qy	10211 GGAGCTCTCATTAATCTGACTTCACTGCTGCTCTGATGTTGAACTG	1080	; APPENDIX T			
Db	23301 GGAGCTCTCATTAATCTGACTTCACTGCTGCTCTGATGTTGAACTG	2389	; APPENDIX U			
Qy	10811 ACAAGTATCATCGAATAAGTACAAGTATTCTGATCTGAGACAAGTCAATGAT	1140	; APPENDIX V			
Db	13101 AACAAAGTGGGCCATCATCCACAGTCGCTTGGGCCCTCGAGTCAGAACCTG	1369	; APPENDIX W			

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RESULT 1
US-09-823-356-25
; Sequence 25, Application US /098233356
; Patent No. US20110025098A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Kaser, Matthew R.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: HUMAN MEMBRANE S
; FILE REFERENCE: PF-0489-1 CON
; CURRENT APPLICATION NUMBER: US/09/823
; CURRENT FILING DATE: 2001-03-30
; PRIORITY APPLICATION NUMBER: 09/039,307
; PRIORITY FILING DATE: 1998 March 13
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PERL Program
; SEQ ID NO: 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US-09-823-356-25

SUMMARIES						
Result No.	Score	Query Match	Length	DB ID	Description	
1	2983	100.0	3111	9	US-09-823-356-25	Sequence 25, April
2	2983	100.0	3111	9	US-09-981-355-191	Sequence 191, April
3	2983	100.0	3111	15	US-10-235-94-25	Sequence 25, April
4	2983	100.0	3267	9	US-09-764-868-27	Sequence 22, April
5	2971-8	99.6	3007	14	US-10-055-412B-27	Sequence 27, April
6	2966.2	99.4	3311	9	US-09-922-217-1056	Sequence 1056, April
7	2966.2	99.4	3311	9	US-09-833-263-1056	Sequence 1056, April
8	2966.2	99.4	3311	13	US-10-025-380-1056	Sequence 1056, April
9	2966.2	99.4	3311	15	US-10-393-590-11	Sequence 11, April
10	2966.2	99.4	3311	15	US-10-393-590-112	Sequence 12, April
11	2966.2	99.4	3311	15	US-10-333-590-46	Sequence 46, April
12	2966.2	99.4	3311	15	US-10-393-590-47	Sequence 47, April
13	2966.2	99.4	3311	15	US-10-393-567-11	Sequence 11, April

result	No.	Query			DB	ID	Description
		Score	Match	Length			
1	2983	100.0	3111	9	US-09-823-356-15		Sequence 25 , Appl
2	2983	100.0	3111	9	US-09-981-353-191		Sequence 191 , App
3	2983	100.0	3111	15	US-10-235-994-25		Sequence 25 , Appl
4	2983	100.0	3267	9	US-09-764-968-22		Sequence 22 , Appl
5	2971.8	99.6	3007	14	US-10-055-412-27		Sequence 27 , Appl
6	2966.2	99.4	3311	9	US-09-922-217-056		Sequence 1056 , Ap
7	2966.2	99.4	3311	9	US-09-833-263-1056		Sequence 1056 , Ap
8	2966.2	99.4	3311	13	US-10-025-380-1056		Sequence 1056 , Ap
9	2966.2	99.4	3311	15	US-10-333-590-11		Sequence 11 , Appl
10	2966.2	99.4	3311	15	US-10-393-590-12		Sequence 12 , Appl
11	2966.2	99.4	3311	15	US-10-393-590-46		Sequence 46 , Appl
12	2966.2	99.4	3311	15	US-10-393-590-47		Sequence 47 , Appl
13	2966.2	99.4	3311	15	US-10-333-567-11		Sequence 11 , Appl

Qy	1	GAAATCAGGGAGATGAGCTACAGCAATGGGCCATTAAAGACTTCTGTCTCTGTATT	60	
Db	10	GAATACAGGGAGATGAGCTACAGCAATGGGCCATTAAAGACTTCTGTCTCTGTATT	69	
Qy	61	CTTCACCTCTCTAGAAGGGCCCTGAGTAATCACTCATCGCTGAAACACAAATGGCTAT	120	
Db	70	CTTCACCTCTAGAACGGCCCTGAGTAATCACTCATCGCTGAAACACAAATGGCTAT	129	
Qy	121	GAAGGATTTGTTGTTGAGTGAATGAGAAATCTTCACTTCACTGAACTTCACTGAACT	180	
Db	130	GAAGGATTTGTTGTTGAGTGAATGAGAAATCTTCACTTCACTGAACTTCACTGAACT	189	
Qy	181	ATAAAGGATATGGTAGCCAGGCACTCTGTAATGTTGAGETACAGCAAAGGGATT	240	
Db	190	ATAAAGGATATGGTAGCCAGGCACTCTGTAATGTTGAGETACAGCAAAGGGATT	249	
Qy	241	TATTCAAAATATGTTGCAATTGTTGATTCCTGAAACATGGAAAGACAAGGCTGATATG	300	
Db	250	TATTCAAAATATGTTGCAATTGTTGATTCCTGAAACATGGAAAGACAAGGCTGATATG	309	
Qy	301	AGACCAAAACTGACACCACAAATAATGTTGATGTTGAGCTTCTGAACTCTCTCA	360	
Db	310	AGACCAAAACTGACACCACAAATAATGTTGATGTTGAGCTTCTGAACTCTCTCA	369	
Qy	361	GTTATGAGAAACCTTACACTGGAGAGAAAGCTGAAAGGATC	420	
Db	370	GTTATGAGAAACCTTACACTGGAGAGAAAGCTGAAAGGATC	429	
Qy	422	CACCTCACTCTGATTCTATTGCAAGGAAAAGTTAGCTGTAATGGACACAGGTAG	480	
Db	430	CACCTCACTCTGATTCTATTGCAAGGAAAAGTTAGCTGTAATGGACACAGGTAG	489	
Qy	481	GCAATTTCATGTTGTSCTCATCTACATGGGGAGTTTGACGACTACATAATG	540	
Db	490	GCAATTTCATGTTGTSCTCATCTACATGGGGAGTTTGACGACTACATAATG	549	
Qy	541	GAGAAATTCTACTTATCCATGGAGAAATACAGGAGTAAGTGTCAAGCAGTTTACT	600	
Db	550	GAGAAATTCTACTTATCCATGGAGAAATACAGGAGTAAGTGTCAAGCAGTTTACT	609	
Qy	601	GGTACAAATGTTGACTAAAGAGTCTAGGGGGAGCTGTTACACAAAGATGCCATT	660	
Db	610	GGTACAAATGTTGACTAAAGAGTCTAGGGGGAGCTGTTACACAAAGATGCCATT	669	
Qy	661	ATAAAACTAACAGGACTTATGAAANACATGTTGAGTTGTTCTCAATCCGAG	720	
Db	670	ATAAAACTAACAGGACTTATGAAANACATGTTGAGTTGTTCTCAATCCGAG	729	
Qy	721	GAGAAGGGCTTCTPATAATGTTGAGCAACAAATGTTGACTTATGTTGAGAA	780	
Db	730	GAGAAGGGCTTCTPATAATGTTGAGCAACAAATGTTGACTTATGTTGAGAA	789	
Qy	781	CAAAACCAAAAGAAGAGCTCCAAAGGAAAATGAAATGCAATCTCCGAGCAC	840	
Db	790	CAAAACCAAAAGAAGAGCTCCAAAGGAAAATGAAATGCAATCTCCGAGCAC	849	
Qy	841	TGGGAAGTGTACCGTGTGATTCTGAGGACTTAAAGAAACACTCTATGAGAAC	900	
Db	850	TGGGAAGTGTACCGTGTGATTCTGAGGACTTAAAGAAACACTCTATGAGAAC	909	
Qy	901	CCAAATCCCACCTTCATGTCGAGCATGGCAATGGCAAGAAATGGTGTTCAGT	960	
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Qy	961	AAATCTGGAAAGATGGCACTGGCTGTTGAGCTGAACTGGCAAGGGAGCT	1020	
Db	970	AAATCTGGAAAGATGGCACTGGCTGTTGAGCTGAACTGGCAAGGGAGCT	1029	
Qy	1021	TTCTCTGCTGCAAGACTGTTGAGCTGAACTGGCAAGGGAGCTGTTGAGCT	1080	
Db	1030	TTCTCTGCTGCAAGACTGTTGAGCTGAACTGGCAAGGGAGCTGTTGAGCT	1089	
Qy	1081	GCCCCATGTTGACAAAGTGAACCTACAGATAAAAGGATGATGTTGACAGGAA	1140	

Appendix

C 73

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 1141 AAAGATTAACCTGCAACGCTTCAAGGACCTTCATCTGCAGCGGGCTTTCGATGGCA 1200
 1150 AARAGATTAACCTGCAAGGCTCACTGCACTGGGTTCTGATGGCA 1209
 1201 TTACTGTTGATTAGGAAATAATCACAATGTCAGTGAATTTGCTGCTGAGCGAT 1260
 1210 TTACTGTTGATTAGGAAATAATCACAATGTCAGTGAATTTGCTGCTGAGCGAT 1269
 1261 GGCGAAAGACAACATATAAGTGGCTGTTAACAGGTCAAACAAAGTGGCTGACATC 1320
 1270 GGCGAAAGACAACATATAAGTGGCTGTTAACAGGTCAAACAAAGTGGCTGACATC 1329
 1321 CACACGTCGTTGGGCCCTCTGAGCTAAAGACTAGAGGGCTGTCACAAATGACA 1380
 1330 CACACGTCGTTGGGCCCTCTGAGCTAAAGACTAGAGGTGTCACAAATGACA 1389
 1381 GGAGGTTTACAGACATATGCFCTCAGATCAAGTGGCTCATTGATGCTTTT 1440
 1390 GGAGGTTTACAGACATATGCFCTCAGATCAAGTGGCTCATTGATGCTTTT 1449
 1441 GGGGCCCTTTCATCGGAAATGAGCTGTTCTCAGGGCTCATTCTGGCTGAGTAAG 1500
 1450 GGGGCCCTTTCATCGGAAATGAGCTGTTCTCAGGGCTCATTCTGGCTGAGTAAG 1509
 1501 GGATTAAACCTCCAGAACAGGAGGATGAGTGGACAGTGTATCTGGACAGCGCTG 1560
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 1741 CAAACCTTGAACCTGACTGTCACTGTCGCTCCGGCTGCTCAATCTCCAAATATACA 1800
 1750 CAAACCTTGAACCTGACTGTCACTGTCGCTCCGGCTGCTCAATCTCCAAATATACA 1809
 1801 GTGACTTCCAAAACGAGCAAGGACACAGCAAACTCCAGCCCTCTGGTAGTTTATGCA 1860
 1810 GTGACTTCCAAAACGAGCAAGGACACAGCAAACTCCAGCCCTCTGGTAGTTTATGCA 1869
 1861 AAATTCGCCAAGGAGCTCCCAATCTCAGGGCAAGGTAAAGCAGCCAGGGAGCTGATGAACTCA 1920
 1870 AAATTCGCCAAGGAGCTCCCAATCTCAGGGCAAGGTAAAGCAGCCAGGGAGCTGATGAACTCA 1929
 1921 GTGATGGAAAACAGTTACCTTGGAAACTACTGGATAATGGAGCTGTTGCTACT 1980
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 1981 AAGGATGACCGTGTCTACATCAAGGTTTACACATGACAGTGTAGTACAGT 2040
 1990 AAGGATGACCGTGTCTACATCAAGGTTTACACATGACAGTGTAGTACAGT 2049
 2041 GTAAAAAGTGGGGCTCTGGAGGAGTTAACGCAGCCAGGGAGCTGATACCCGAG 2100
 2050 GTAAAGTGGGGCTCTGGAGGAGTTAACGCAGCCAGGGAGCTGATACCCGAG 2109
 2101 AGTGGAGCACTGACATACCTGCTGTTGAGTGGATGCTACTGGAGCT 2160
 2110 AGTGGAGCACTGACATACCTGCTGTTGAGTGGATGCTACTGGAGCT 2169
 2161 AGACCTGAAATTAAAGGATGATGTTGACACACAAGGAAAGTGGTTGAGCAACTCGCC 2220

